

CLAIMS

What is claimed is:

1. A support bracket for a disk brake of the type having a floating caliper, comprising securing means for
5 securing the support bracket to the suspension of a vehicle, support means suitable for slidably supporting a caliper body, wherein the support bracket comprises an inner wall facing the inside of the vehicle and an outer wall opposite the inner wall and spaced therefrom, the
10 inner wall and the outer wall being fixedly joined and arranged one on each side of a disk plane which constitutes the plane in which the brake disk lies, delimiting a space for accommodating a portion of a brake disk, wherein each of the inner wall and the outer
15 wall forms two pad seats, each pad seat being suitable for accommodating a pad and comprising two stop surfaces, which are substantially opposite one another, for stopping the pad in two opposite directions.

2. A support bracket according to claim 1,
20 comprising an inner cross member and an outer cross member which are connected to one another by two substantially U-shaped lateral yokes and a substantially U-shaped central yoke arranged between the lateral yokes, wherein the lateral yokes and the central yoke
25 lie in planes substantially transverse to the disk plane

and comprise a base which intersects the disk plane, and also an inner wing connected to the inner cross member and an outer wing connected to the outer cross member, wherein the inner wings of the lateral yokes and of the central yoke and the inner cross member constitute the inner wall and the outer wings of the lateral yokes and of the central yoke and the outer cross member constitute the outer wall.

3. A support bracket according to claim 2, wherein the central yoke is arranged half-way between the lateral yokes.

4. A support bracket according to claim 2, wherein the lateral yokes and the central yoke lie in planes which are substantially radial with respect to a disk axis constituting the axis of rotation of the brake disk.

5. A support bracket according to claim 2, wherein the stop surfaces opposite each pad seat are formed respectively by a wing of the central yoke and a wing of one of the lateral yokes of the same wall.

6. A support bracket according to claim 2, wherein the cross members are connected to those ends of the wings of the yokes which are remote from the base.

7. A support bracket according to claim 2, wherein the cross members are substantially parallel

with the disk plane.

8. A support bracket according to claim 2, wherein the securing means comprise two securing holes which are suitable for receiving corresponding securing
5 screws and which are arranged in the inner cross member at the location of the lateral yokes.

9. A support bracket according to claim 2, wherein the support means comprise two lateral holes, formed in the inner wings of the lateral yokes, and a
10 central hole, formed in the outer wing of the central yoke, the lateral holes and the central hole being suitable for receiving slide pins for the sliding support of the sliding caliper body.

10. A support bracket according to claim 2,
15 wherein the cross members are substantially arc-shaped and extend substantially along circumferences around the disk axis.

11. A support bracket according to claim 2, comprising two openings disposed respectively between
20 the central yoke and the lateral yokes.

12. A disk brake, comprising a support bracket according to claim 1 and a caliper body supported at three points by the support bracket in such a manner that it can slide along an axis transverse to the disk
25 plane.

13. A disk brake according to claim 12, wherein the caliper body comprises an inner portion facing the inside of the vehicle and an opposite outer portion which are fixedly joined to one another and spaced in
5 such a manner as to enable the support bracket to be positioned between them, wherein the inner portion is provided with four piston seats for accommodating hydraulic pistons for acting on the pads arranged on the inner wall of the support bracket, and the outer portion
10 is provided with suitable reaction surfaces for checking the thrust transmitted by the pads arranged on the outer wall of the support bracket.

14. A disk brake according to claim 13, wherein two hydraulic pistons are associated with each of the
15 two pads arranged on the inner wall of the support bracket.

15. A disk brake according to claim 13, wherein the four piston seats are arranged along an arc of a circle.

20 16. A disk brake according to claim 12, wherein the inner portion and the outer portion of the sliding caliper body are connected to one another by two lateral bridge elements which are arranged at the location of the opposite ends of the portions and by a central
25 bridge element which is arranged substantially half-way

between the lateral bridge elements, wherein the inner portion and the outer portion, together with the lateral bridge elements and the central bridge element, delimit two openings disposed at the location of the openings of
5 the support bracket.

17. A disk brake according to claim 12, wherein the outer portion comprises, at the location of the central bridge element, a central hole for receiving a central slide pin and the inner portion comprises, in
10 the vicinity of both of the lateral bridge elements, a lateral hole for receiving two lateral slide pins, in order to form the three-point sliding support.

18. A disk brake according to claim 17, wherein a damping element is interposed between the holes and the
15 slide pins.

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